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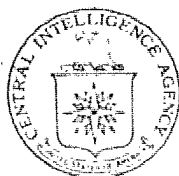
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NPIC/R-171/63

August 1963

PHOTOGRAPHIC INTERPRETATION REPORT

CATEGORY-1, SA-O SAM SITE
KURESSAARE, USSR

CIA



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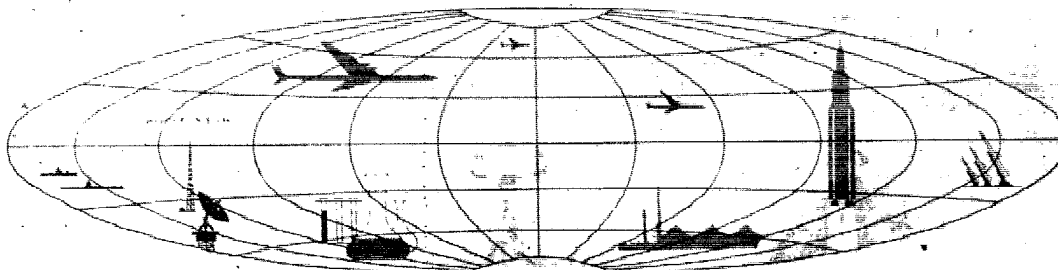
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NPIC/R-171/63

CATEGORY-1, SA-0 SAM SITE, KURESSAARE, USSR

NPIC Report R-123/62 presented a description of a new and unidentified type SAM launch site collocated with SA-2 sites in four areas of the USSR. 1/ Since this report, other SAM launch sites with configurations anomalous to known SA-2 configurations have been identified. These have been arbitrarily designated category one, two and three SA-0 SAM sites. 2/ A Category 1, SA-0 site is on Ostrov Saaremaa (Saaremaa Island), in the Baltic Sea. This is Kuressaare SAM Site B-07, located 15 nautical miles northeast of Kuressaare at coordinates 58-22-00N 22-53-30E, [REDACTED] (Figure 1). Kuressaare B-07 first was observed on KEYHOLE photography of [REDACTED]. Since then it has been seen on KEYHOLE photography of [REDACTED] (Figure 2) and [REDACTED] (Figure 3).

The purpose of this report is to compare the Kuressaare site with a typical SA-2 star configuration (Figure 4). In certain aspects the Kuressaare site resembles an SA-2 site; however, in other aspects it is dissimilar.

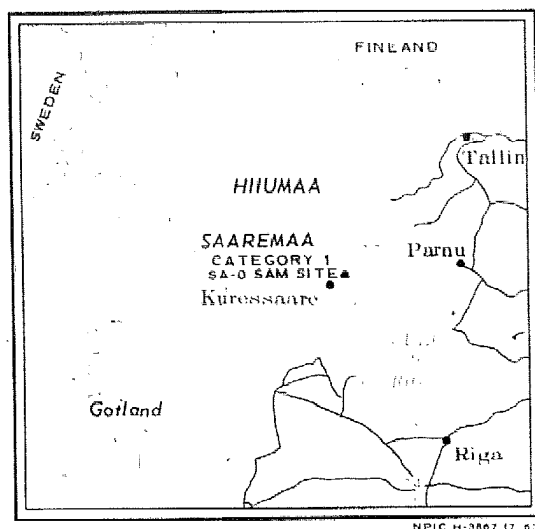


FIGURE 1. KURESSAARE, USSR, SAM SITE B-07.

The Kuressaare site and the typical SA-2 star site are similar in that both have an outer ring road circumscribing an inner service road. The inner service road forms a six-pointed star configuration and serves the six launch positions from the three hold areas.

Positioning of the launch pads is one of the basic differences between the two site configurations. In the typical SA-2 star configuration, a launch pad is located on each side of the hexagon formed by the inner service road. In contrast, the launch pads at the Kuressaare site are located contiguous to the outer ring road and between the star points formed by the inner service road.

The difference in position of the launch pads has resulted in significant dimensional differences between the two configurations. The dimensions diametrically between pads are 470 and 665 feet, respectively, for the SA-2 and Kuressaare sites (Table 1). Similarly, as shown in the table, the dimensions differ from one adjacent pad to the next, those at Kuressaare ranging from 40 to 70 feet farther apart. Other dimensions as given in the table include the diameters of the inner circular road at Kuressaare; the diameters of the outer ring roads; the widths of the ring roads; and approximate pad diameters.

A second significant difference is the shape and size of the guidance areas. The typical SA-2 star site has a circular guidance area with a diameter of approximately 160 feet (Figure 4). The Kuressaare guidance area is nearly rectangular and measures approximately 175 by 145 feet (Figure 2).

It is concluded that:

- (1) The Kuressaare SAM Site B-07 is a completed Category 1, SA-0 Launch Site and is not a modified SA-2 site.

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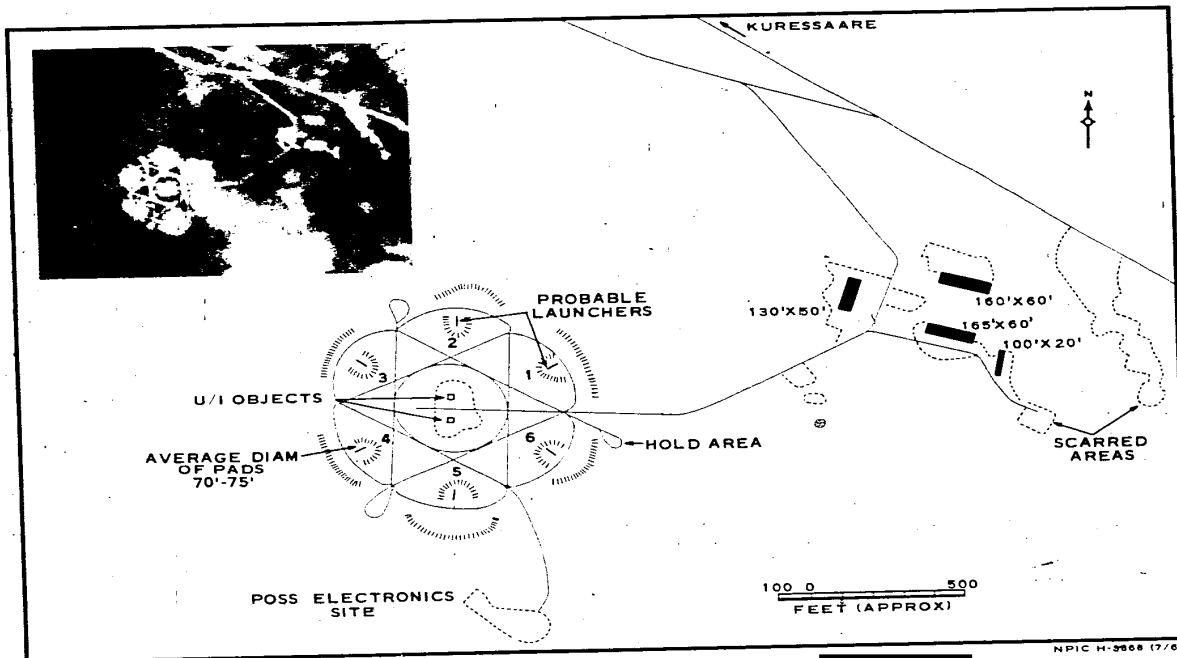


FIGURE 2. CATEGORY 1, SA-0 SAM SITE, KURESSAARE, USSR

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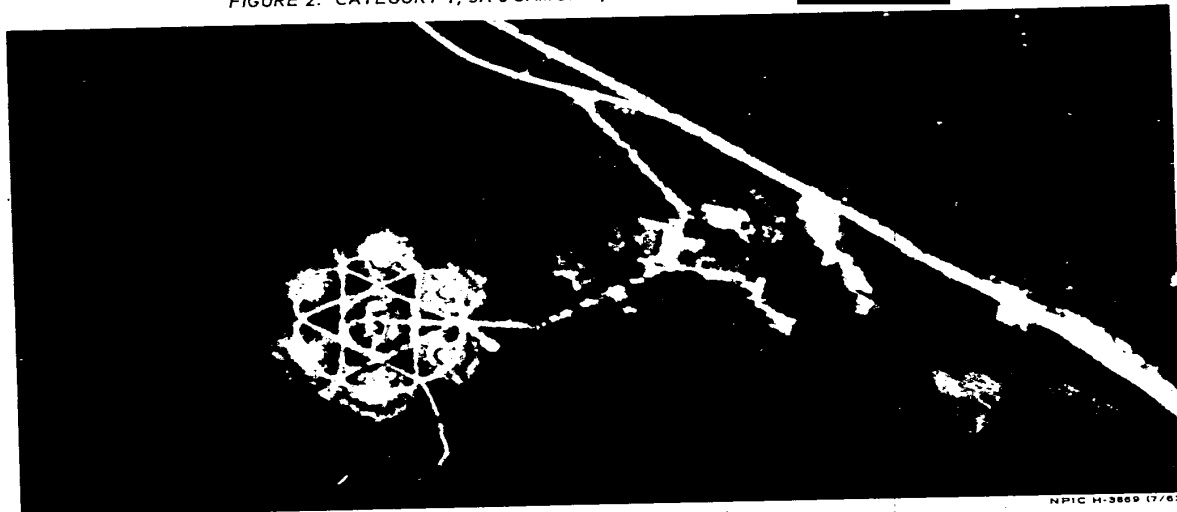


FIGURE 3. CATEGORY 1, SA-0 SAM SITE, KURESSAARE

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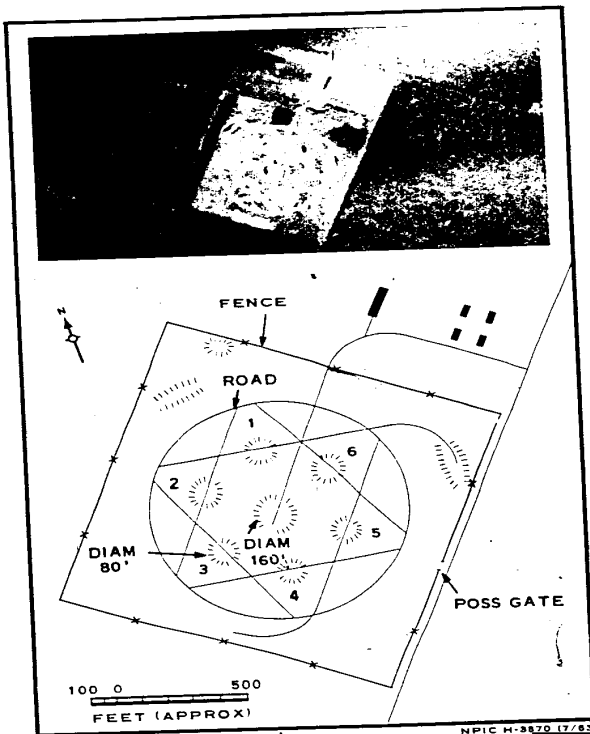


FIGURE 4. SA-2 STAR CONFIGURATION AT ZHDANOV

Table 1. Comparative Measurements of Kuessaare SAM Site and a Typical SA-2 Star Site (Zhdanov)

Pad Separation (center-to-center)	Zhdanov (ft approx)	Kuessaare (ft approx)
1 to 2	260	300
2 to 3	230	300
3 to 4	235	290
4 to 5	235	300
5 to 6	235	305
6 to 1	225	285
2 to 5	470	665
Diam of pads	80	70-75
Diam outer circle road	675	675
Ring road width	50'	
Diam inner circular road	--	290

25X1D

(2) The launch positions are located on the outer ring road and between points of the star-configured road pattern. This has resulted in a significant dimensional difference among launch positions between the Kuessaare site and the typical SA-2 star configuration site.

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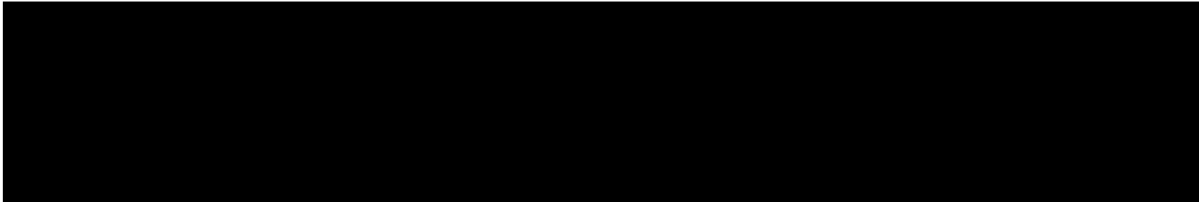
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REFERENCES

PHOTOGRAPHY

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MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0153-11AL, 2d ed, Jan 60, scale 1:200,000 (SECRET)

DOCUMENTS

1. NPIC/R-123/62. New-Type SAM Sites in the USSR, Aug 62 (TOP SECRET CHESS RUFF)
2. NPIC/R-115/63. SA-0 SAM Sites in the USSR, Jun 63 (TOP SECRET CHESS RUFF)

REQUIREMENT

CIA. OSI R-145/63

NPIC PROJECT

J-87/63

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